



# BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

Faculty of Agriculture

Department of Agricultural Chemistry and Soil Science

Dr. Prasanta Kumar Patra  
M. Sc. (I.A.R.I.), Ph.D. (I.A.R.I.)  
Professor  
Agricultural Chemistry & Soil Science  
Formerly Research Fellow,  
International Rice Research Institute,  
Manila, Philippines

Kalyani 741 235, West Bengal, India  
TELEGRAM: KRISHIBIDHAN

**Residence:**  
B 11 / 93, Fourth Floor, Mangalik 4B  
Kalyani-741235, Nadia, West Bengal, India  
Mobile: +919434418580 ; +919007578684  
Email: [drpatrapk@yahoo.co.in](mailto:drpatrapk@yahoo.co.in);  
[drpatrapk59@gmail.com](mailto:drpatrapk59@gmail.com); [drpatrapk@bckv.edu.in](mailto:drpatrapk@bckv.edu.in)

No.- CIC/e-tender/01

Dated:08/03/2019

## TENDER NOTIFICATION

### Tender Id No. 2019\_BCKV\_223405\_1

The Chairman, Committee for Central Instrumentation Laboratories invites online quotations (E-tender) from competent and *bonafide* vendors/ parties/ distributors/ dealers/agents/ manufacturers having registration having registration of GST for supply of following items to the Main Campus, F/ Agriculture, Mohanpur, Nadia- 741252 as per specifications appended bellow.

#### **Terms & Conditions:**

**Submission of quotation:** the quotation shall be submitted within 14 days from publication of the tender

**Preparation of bids:** the tender should be submitted under two bids system with validity for a period of 6 (six) months.

Technical bids will be evaluated by the Indenter and other expert members of the office and the financial bids will be opened of those bidders who qualified in technical bids.

**Price:** The price of items, including imported ones, should be quoted in INR & net per unit (including taxes and duties, etc). However, University will provide valid DSIR and authorization certificate to the clearing agent, if required.

Quoted rates must be FOR DESTINATION (including packing, insurance and delivery charges up to the laboratory at Main Campus, F/ Agriculture, Mohanpur, Nadia- 741252 with satisfactory installation and demonstration. The bidders must stipulate the delivery period of the same.

Payment will be made after satisfactorily performance of the items.

The vendor should have experience for supplying of different items to any Government / Semi Government organization

#### **Important safety standards**

The instrument must confirm to International EMC and Safety standards.

#### **Warranty**

Warranty period minimum 3 Year or more from the date of installation. Manufacturer must have their own dedicated Service Centre available in India and details of Service Centre must be provided while submitting their Quotations.

#### **Supporting documents**

- Bid papers should accompany authorization certificate from original manufacturer, trade license, GST registration, proprietary certificate (if any) and professional tax challan etc.
- Photocopy (self-attested) of the original supporting document in favour of the specification – claim for each item must have to be submitted separately, if available.
- User list along with certificate from reputed users also need to be submitted.

The Viswavidyalaya reserves the right to accept or reject any tender without showing reason whatsoever.

**EMD must be in favor of ‘Bidhan Chandra Krishi Viswavidyalaya’**

**State Bank of India, Kalyani, code:1082**

**Name of the account holder BCKV. EMD amount is Rs.15000 (Rupees fifteen thousand only).**

Sl. No.	Name of the Item/ Brief Description of the Goods	Specification	Qty
01	FT-IR Spectrometer with accessories	<ul style="list-style-type: none"> <li>• Must have a scan range of 8300 - 350cm<sup>-1</sup></li> <li>• Should have High-Linearity Room temperature Mid-Infrared detector (RT-MIR)</li> <li>• Should have rotary Michelson interferometer for fast scanning, self-compensating for dynamic alignment changes due to a tilt and shear</li> <li>• Long-life sealed and desiccated optical unit incorporating special design for extended desiccant life, Vibration isolated base-plate</li> <li>• The source should be Long-life source with hot-spot stabilization; user replaceable.</li> <li>• The system should have a Typical desiccant lifetime of 5 years at 25° C temperature and 90% relative humidity</li> <li>• A real-time atmospheric vapour correction (AVC) utility must be available. This should not require the collection of reference or calibration spectra.</li> <li>• The system should at least have a signal to noise ratio of 9,300:1 peak-peak, 5 seconds and 32,000:1 peak-peak, 1 minute</li> <li>• The system should have a spectral resolution of 0.5 cm<sup>-1</sup></li> <li>• Wavelength accuracy at least 0.1 cm<sup>-1</sup> at 3000 cm<sup>-1</sup> is essential</li> <li>• Wavelength precision of at least 0.01 cm<sup>-1</sup> at 3000 cm<sup>-1</sup></li> <li>• Along with the main instrument, accessories like:               <ol style="list-style-type: none"> <li>1) Demountable Cell Mount,</li> <li>2) KBr rectangular Windows (Pack of 2),</li> <li>3) Assorted Rectangular Spacers,</li> <li>4) KBr Die Set,</li> <li>5) Potassium Bromide Pellet Holder,</li> <li>6) Press,</li> </ol> </li> </ul>	01

		<p>7) IR grade KBr Powder (100g) and 8) Adjustable Adaptor should be offered directly from the manufacturer of the FTIR system.</p> <ul style="list-style-type: none"> <li>• Instrument should be provided with UPS, PC for operation.</li> <li>• Standard warranty of 3 years should be given along with the instrument.</li> <li>• The instrument must use USB, wireless and TCP/IP interface allows direct connection with LAN. Instruments should have facility to be configured with wireless router communication.</li> </ul> <p><b>Software:</b></p> <ul style="list-style-type: none"> <li>• The software should have feature to enable the user real time update of spectral information plus results to provide faster feedback of information data status</li> <li>• A single software platform to incorporate all of the functions required for infrared analyses; instrument control, data manipulation and analysis, and flexible report utilities</li> <li>• Password-protected user login function. Access to methods, menu, toolbar and toolbox functions can be controlled</li> <li>• Software processing should include extensive suite of spectral processing functions with simple user interface, examples include 1st-4th derivative with a variable filter, smooth, difference, normalization, A, %T, LOG, ordinate modes, <math>\text{cm}^{-1}</math>, nm and micron abscissa modes, +, -, *, /, baseline correction, interpolate, peak find. Custom arithmetic, processing chains, and automatic data tune feature</li> </ul>	
<b>02</b>	Double Beam UV-Visible Spectrophotometer	<p>System: UV-Visible Spectrophotometer with Blazed holographic grating with 1200 lines per mm, Czerny-Turner with 0.2m focal length. Wavelength Range: 190-1100 nm or better Lamp Source: Tungsten / Deuterium Lamp Spectral Bandwidth: 0.5, 1, 2, 5, 20 nm variable or better Wavelength Accuracy: <math>\pm 0.1</math> nm for the entire wavelength range or better Photometric Absorbance: <math>\pm 4A</math> or better Wavelength Reproducibility: <math>\pm 0.1</math> nm or better Detector: Silicon Photodiode Photometric Reproducibility: <math>\pm 0.001</math> Abs or better Photometric accuracy: <math>\pm 0.004</math> A or better Stray light: <math>&lt; 0.02\%</math> (220 nm NaI) or better Photometric Noise: <math>&lt; 0.00005</math> Abs or better Photometric drift: <math>&lt; 0.0003</math> Abs/h or better Baseline flatness: <math>\pm 0.0005</math> A or better</p>	<b>01</b>

		Software: Spectral Analysis, Quantitative Analysis, Kinetic Analysis & Photometric Analysis, for complete spectrophotometer control, Data storage, Spectral overlay in 3D Display mode, create customized report templates, Built in User group creation, log history and Password protection. Quartz Cuvettes: 3.5 ml 1 set Warranty: 3 years standard warranty from the date of installation Accessories: Instrument should be supplied with PC, 1 KVA UPS for operation	
<b>03</b>	Fluoride Selective Electrode	To be compatible with EUTECH Instruments made CyberScan Series 600	<b>01</b>
<b>04</b>	Nitrate Selective Electrode	To be compatible with EUTECH Instruments made CyberScan Series 600	<b>01</b>

The quotations completed in all respect with all supporting documents should preferably be dropped in the box kept in the Office of Registrar and Chairman, Central Purchase Committee, 2<sup>nd</sup> Floor, Administrative Building, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, PIN- 741252 or sent by post within 10 days up to 5.00 P.M. For any further clarifications, contact can be made with Prof. Prasanta Kumar Patra (Mob: 9007578684) and Prof. Somnath Bhattacharyya (Mob:8697126377).

**(Prasanta Kumar Patra)**

**The Chairman,  
Committee for Central Instrumentation Laboratories**